



# SEQUENCE LISTING

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Demo, Susan  
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Rigel Pharmaceuticals, Inc.

<120> MRE11: Modulation of Cellular Proliferation

<130> 021044-001310US

<140> US 10/026,331

<141> 2001-12-21

<150> US 60/309,737

<151> 2001-08-01

<160> 21

<170> PatentIn Ver. 2.1

<210> 1

<211> 2537

<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (171)..(2297)

<223> MRE11

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<210> 2

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Glu Asn Glu Val Asp Phe Ile Leu Leu Gly Gly Asp Leu Phe His Glu
      50          55          60
Asn Lys Pro Ser Arg Lys Thr Leu His Thr Cys Leu Glu Leu Leu Arg
      65          70          75          80
Lys Tyr Cys Met Gly Asp Arg Pro Val Gln Phe Glu Ile Leu Ser Asp
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Gln Ser Val Asn Phe Gly Phe Ser Lys Phe Pro Trp Val Asn Tyr Gln
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Asp Gly Asn Leu Asn Ile Ser Ile Pro Val Phe Ser Ile His Gly Asn
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His Asp Asp Pro Thr Gly Ala Asp Ala Leu Cys Ala Leu Asp Ile Leu
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Ser Thr Asn Phe Ile Pro Glu Gln Phe Leu Asp Asp Phe Ile Asp Leu
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Val Ile Trp Gly His Glu His Glu Cys Lys Ile Ala Pro Thr Lys Asn
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Lys	Ile	Met	Ser	Gln	Ser	Gln	Val	Ser	Lys	Gly	Val	Asp	Phe	Glu	Ser			
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 Asp Glu Ile Leu Arg Leu Ala Gln Glu Asn Glu Val Asp Phe Ile Leu  
 35 40 45  
 Leu Gly Gly Asp Leu Phe His Glu Asn Lys Pro Ser Arg Lys Thr Leu  
 50 55 60  
 His Thr Cys Leu Glu Leu Leu Arg Lys Tyr Cys Met Gly Asp Arg Pro  
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 85 90 95  
 Lys Phe Pro Trp Val Asn Tyr Gln Asp Gly Asn Leu Asn Ile Ser Ile  
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 Pro Val Phe Ser Ile His Gly Asn His Asp Asp Pro Thr Gly Ala Asp  
 115 120 125  
 Ala Leu Cys Ala Leu Asp Ile Leu Ser Cys Ala Gly Phe Val Asn His  
 130 135 140  
 Phe Gly Arg Ser Met Ser Val Glu Lys Ile Asp Ile Ser Pro Val Leu  
 145 150 155 160  
 Leu Gln Lys Gly Ser Thr Lys Ile Ala Leu Tyr Gly Leu Gly Ser Ile  
 165 170 175  
 Pro Asp Glu Arg Leu Tyr Arg Met Phe Val Asn Lys Lys Val Thr Met  
 180 185 190  
 Leu Arg Pro Lys Glu Asp Glu Asn Ser Trp Phe Asn Leu Phe Val Ile  
 195 200 205  
 His Gln Asn Arg Ser Lys His Gly Ser Thr Asn Phe Ile Pro Glu Gln  
 210 215 220  
 Phe Leu Asp Asp Phe Ile Asp Leu Val Ile Trp Gly His Glu His Glu  
 225 230 235 240  
 Cys Lys Ile Ala Pro Thr Lys Asn Glu Gln Gln Leu Phe Tyr Ile Ser  
 245 250 255  
 Gln Pro Gly Ser Ser Val Val Thr Ser Leu Ser Pro Gly Glu Ala Val  
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	50					55					60				
Tyr	Gln	Val	Leu	Lys	Thr	Leu	Arg	Leu	Cys	Cys	Met	Gly	Asp	Lys	Pro
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Cys	Glu	Leu	Glu	Leu	Leu	Ser	Asp	Pro	Ser	Gln	Val	Phe	His	Tyr	Asp
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Glu	Phe	Thr	Asn	Val	Asn	Tyr	Glu	Asp	Pro	Asn	Phe	Asn	Ile	Ser	Ile
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Pro	Val	Phe	Gly	Ile	Ser	Gly	Asn	His	Asp	Asp	Ala	Ser	Gly	Asp	Ser
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225					230					235					240
Cys	Ile	Pro	Asn	Leu	Val	His	Asn	Pro	Ile	Lys	Asn	Phe	Asp	Val	Leu
				245					250					255	
Gln	Pro	Gly	Ser	Ser	Val	Ala	Thr	Ser	Leu	Cys	Glu	Ala	Glu	Ala	Gln
			260					265					270		
Pro	Lys	Tyr	Val	Phe	Ile	Leu	Asp	Ile	Lys	Tyr	Gly	Glu	Ala	Pro	Lys
		275					280					285			
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duplex substrate for MRE11 plate-based assay

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35 40 45
Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
50 55 60
Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
65 70 75 80
Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
85 90 95

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